***COMPLETE IN NOTEBOOK! COPY ALL FIGURES!***

CW27/HW27: Side-Angle-Side Criteria

**Geometry**

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| 1. Sara says that the two triangles below are congruent by Side-Angle-Side. Below is her work  |  | | --- | | (side) (angle)  (side)  I found two pairs of congruent sides and one pair of congruent angles (shown above). Therefore the two triangles meet the Side-Angle-Side criteria and are congruent. |   *Identify* and *correct* her error. | |
| 1. a) In your own works, describe what given information means.   b) In your own words, describe what information form prior knowledge means.  c) In your own words, describe what assumed information means. | |
| 1. Directions: Jorge is completing classwork for Geometry. For each congruency statement, identify if Jorge’s statement is an assumption, prior knowledge, or given information by circling one of the options.  |  | | --- | | **../../../../../Desktop/Screen%20Shot%202015-12-05%20at%2012.55.48%20PM**Prove that ΔABC ≅ ΔDBE. AB =BC *assumption prior knowledge given*  CB = BD *assumption prior knowledge given*  ∠ABC ≅ ∠DBE *assumption prior knowledge given*  AC = DE *assumption prior knowledge given* | | |
| **Directions:** Determine whether enough information is given to prove that the triangles are congruent. If there is enough information, state if you would use SSS or SAS to prove these triangles congruent | |
|  |  |
| A  B  C  D  E  F  Given:  Prove: ΔCAB ≅ ΔDFE | |
| Practice: SAS | |
| Criteria for Success: Did you…   * Annotate each figure * Identify corresponding, congruent angles and sides * Provide reasoning justifying your congruency statement. * Write congruency statements using mathematical symbols * Write at least 2 sentences explaining your reasoning | |
| 1. Given: ,   Do and meet the SAS criteria?   * if so, **write down the corresponding sides and angle** and state how you know they are congruent. * If not, explain why not in **at least 2 sentences**. | |
| 1. Given: ,   Do and meet the SAS criteria?   * If so, **write down the corresponding sides and angles**  and state how you know they are congruent. * If not, explain why not in **at least 2 sentences**. | |
| Review: Side-Side-Side in the coordinate Plane | |
| **http://www.ck12.org/flx/show/image/201412231419361428075441_8c8db60f69d169c49ad92dc0c345e2b6-201412231419362698426612.png** | 1. Find the distance of each of the sides listed below: ΔABC: AB, BC, CA  ΔDEF: DE, EF, FD 2. Alan says that the two triangles are congruent because they meet the side-side-side criteria. Based on what you found in part a, do you agree or disagree with Alan? **Explain in at least 2 complete sentences.** |